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Amendments to the Claims

1. (Three Times Amended) A process for polymerizing olefin(s) comprising combining said olefin(s) in the presence of a catalyst system comprising a Group 15 containing [bidentate or] tridentate ligated metal catalyst compound, wherein the process is conducted at a temperature from between 50° C. to 200° C., and wherein the catalyst compound is represented by the formula: [formulae:]

wherein M is metal;

each X is an aryl substituted alkyl leaving group;

y is 0 or 1;

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n is the oxidation state of M;

m is the formal charge of Y, Z and L [or of Y, Z, and L'];

L is a Group 15 element;

[L' is a Group 15 element or Group 14 containing group;]

Y is a Group 15 element;

Z is a Group 15 element;

 R^1 and R^2 are independently a <u>linear</u>, <u>branched</u>, or <u>cyclic C₂-C₂₀ alkyl group</u>; [C₁ to C₂₀ hydrocarbon group, a heteroatom containing group having up to twenty carbon atoms, silicon, germanium, tin, lead, or phosphorus;]

R³ is absent, a hydrocarbon group, hydrogen, a halogen, or a heteroatom containing group;

R⁴ and R⁵ are independently an alkyl group, an aryl group, a substituted aryl group, a cyclic alkyl group, a substituted cyclic alkyl group, a cyclic arylalkyl group, a substituted cyclic arylalkyl group or a multiple ring system;

R¹ and R² may be interconnected to each other, and/or R⁴ and R⁵ may be interconnected to each other; and

R⁶ and R⁷ are independently absent, hydrogen, an alkyl group, halogen, heteroatom or a hydrocarbyl group; [and

R* is absent, hydrogen, a Group 14 atom containing group, a halogen, or a heteroatom containing group]

wherein said Group 15 containing tridentate ligated metal catalyst compound is added to a polymerization reactor in one of a slurry, a solution, an emulsion, a dispersion or a

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suspension, and wherein said Group 15 containing tridentate ligated metal catalyst compound has an activity of at least 641 g polyethylene/mmol catalyst atm •h.

- 2. (Once Amended) The process of claim 1 wherein R¹ and R² are a C₂ to C₆ hydrocarbon radical [selected from the group consisting of a C₁ to C₂₀ hydrocarbon group, a heteroatom containing group, silicon, germanium, tin, lead, and phosphorus].
- 3. (Cancelled)
- 4. (Original) The process of claim 1 wherein R⁴ and R⁵ are represented by the formula:

wherein R⁸ to R¹² are each independently hydrogen, a C₁ to C₄₀ alkyl group, a halide, a heteroatom, or a heteroatom containing group containing up to 40 carbon atoms, wherein any two R groups may form a cyclic group and/or a heterocyclic group, and wherein the cyclic groups may be aromatic.

- 5. (Once Amended) The process of claim 4 wherein R⁸ to R¹² [R⁹, R¹⁰ and R¹²] are independently a methyl, ethyl, propyl or butyl group and X is a substituted aryl group having greater than 10 carbon atoms.
- 6. (Once Amended) The process of claim 4 wherein R⁸ to R¹² [R⁹, R¹⁰ and R¹²] are methyl groups, and [R⁸ and R¹¹ are hydrogen and] X is [a] an alkyl substituted with an aryl group.

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- 7. (Original) The process of claim 4 wherein L, Y, and Z are nitrogen, R¹ and R² are a hydrocarbon radical, R³ is hydrogen, and R⁶ and R⁷ are absent.
- 8. (Once Amended) The process of claim 1 wherein L and Z are independently nitrogen, [L' is a hydrocarbyl radical,] and R⁶ and R⁷ are absent.
- 9. (Cancelled)
- 10. (Original) The process of claim 1 wherein the process is a continuous gas phase process.
- 11. (Original) The process of claim 1 wherein the process is a continuous slurry phase process.
- 12. (Original) The process of claim 1 wherein the olefin(s) is ethylene or propylene.
- 13. (Original) The process of claim 1 wherein the olefins are ethylene and at least one other monomer having from 3 to 20 carbon atoms.
- 14. (Original) The process of claim 1 wherein the catalyst system further comprises an activator.